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## KEEP COOL

NATURE MUST  
YIELD UP HER  
SECRETS

Continued from Page Nine

other stations are maintained on nearly by mountains at various elevations, thus permitting a study of desert conditions from sea-level to an altitude of one mile above the sea. While Burbank is at work perfecting his thornless cactus and other forage plants which are adapted to desert life, the Carnegie scientists on the desert are studying actual conditions of life there with reference to temperature, rainfall, irrigation, etc. in the hope of reclaiming the desert to vegetation. The government is assisting in this work through the reclamation service and the Geological Survey.

## Close Study of Man.

What is the relative efficiency of a man as a working machine? What proportion of energy does he develop from the food he eats? What is the best kind of fuel with which to fill the human boiler? Can a man whose energy and strength are below par be restored to normal efficiency by varying the fuel that keeps him going? These are some of the questions that are being investigated by experts of the Carnegie Institution. An airtight chamber has been made, in which a man has been placed and studied exactly as a mechanical engineer would study a steam boiler and engine. The air, food, and water supply furnished to the subject is minutely measured, and the constituents of each carefully noted and compared with the waste material. The subject is studied under conditions of fasting, normal eating, overeating, etc., and the proportion of energy developed from the nutrient supplied is ascertained. These experiments are also being made upon the bodily strength and welfare. By means of a long series of these studies, together with examinations into the properties of foods, it is hoped that a system of dieting may be devised which will do more than medicine to restore sick weak, or otherwise abnormal persons to a normal condition.

The greatest study of mankind is man," said an official of the Carnegie Institution, in discussing these experiments. "But we cannot hope to make studies of the character which science regards as most important and fruitful of great possibilities. We find that society will not permit certain researches and experiments. What greater field is there for example than studies in anthropology and psychology? Yet we must keep out of these fields, until society becomes more receptive to scientific truth. We should like to study the American negro and the Filipino, as well as to pursue researches into the mystery of the human brain, but the obstacles cannot be overcome. These matters must wait. Science would like nothing better than to study the mysteries of heredity in human beings, but there too, we are met by insuperable obstacles."

## Study Laws of Evolution.

"A hint of the wonders that might be unfolded by the study of inheritance is given in the work of our specialists at Cold Harbor, N. Y., who are at work upon animals, fishes, insects and plants. The laws of evolution are being studied there at first hand. The three factors of evolution—variation, inheritance, and adjustment to environment—are being weighed, with most interesting results. Our investigators are aiming to develop a better breed of cattle, new fishes, and plants. The products of hybridization of animals and plants are wonderful, and new light is being thrown upon such obscure problems, for example, as the significance of color markings."

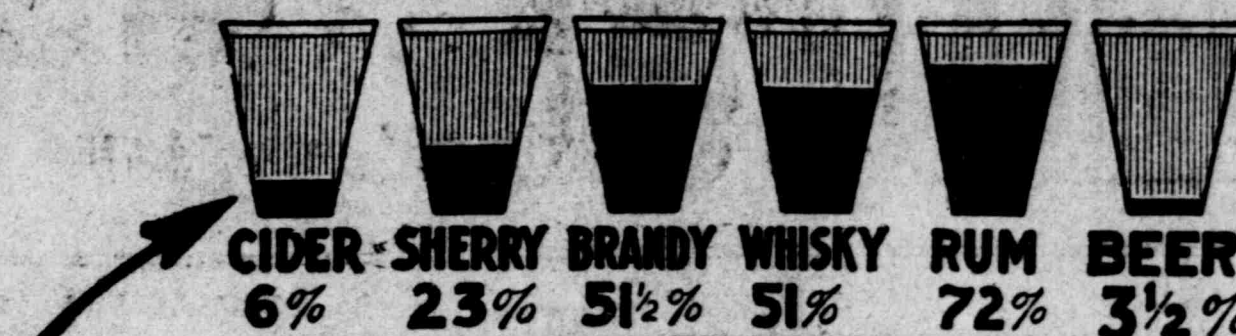
Another enterprise inaugurated by the Carnegie Institution at great expense is that of making a magnetic survey of the oceanic areas of the globe. Fairly good magnetic surveys have been made of land areas, but the water areas, three times as great, remain unexplored. No one knows as yet the cause and nature of terrestrial magnetism. Why does the needle point to the north? Why does it vary widely at different spots? What causes it to dip? What is the cause of the third mysterious horizontal movement, recently discovered? For the purpose of gaining light on these questions the brig Galilee is now making a survey of the North Pacific Ocean. The most practical result of these studies, if they are fully worked out, will be the mapping of the oceans so that steam vessels may take and keep the shortest route between two ports with absolute certainty of position. At present, perhaps, two full days are lost by the swiftest steamers in crossing the Pacific, on account of the uncertainty of the navigator as to the degree of variation of the needle. The time of trans-Atlantic liners could also be cut down materially if the magnetic variation were exactly known at every stage of the route.

## May Predict Earthquakes.

If the magnetic surveys undertaken by the institution are as successful as hoped for, the secret of terrestrial magnetism will be learned. This is the splendid goal aimed at. Armed with this knowledge, scientists believe that rapid progress would be made toward prognosticating the occurrence of earthquakes. They are satisfied that a close connection exists between the sun and terrestrial magnetism and are prepared for discoveries which will establish this connection. The observations of the sun taken daily at Mount Wilson, are, therefore, considered in their relation to the work of the Galilee, in mid-Pacific and investigators are hopeful that these parties, so far separated, will find the threads that are supposed to connect them.

Among the investigations of minor importance undertaken by the Carnegie Institution is that concerning American history. Students are at work in the government archives of Spain, Great Britain, and Cuba, as well as in the papers of the State Department and the Library of Congress. Important historical data are believed to be forthcoming within the next year. The institution is also gathering material on an enormous scale for an economic history of the United States.

These studies, together with advanced researches in archaeology, marine biology, chemistry, geology, paleontology, physics, zoology, and a dozen other "ologies," comprise the chief activities of this great institution, which has already demonstrated its immense usefulness in supporting investigations which would be too costly for private enterprise and which are hardly within the scope of the government's functions.

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IN WASHINGTONHe Interviews Messrs.  
Taft, Shaw and Fairbanks on Presidency.

After I'd seen Secretary Lobe and he'd convinced me it wasn't no use to cherish hope that Mister Roosevelt might be perwaded to renou his leese on the White House, I decided to go on to Washington and have a look at them fellers who are sed to be sittin round a-hopin the Republic party will ketch them off of their gard some day and surprise them into exceptin the nominashun.

I'd herd a good deal about Mister Farebanks and Mister Taft and Mister Shaw and the rest, and after experience with Mister Lobe at Oyster Bay I wanted to meet some other grate men to see if they was all like him. They wasn't.

When I got to Washington a feller to the hotel sed I'd better hunt up Mr. Taft first because it mite take me some time to see him. He laffed when he sed it and I felt kind of hurt thinkin he mite be laffin at me. When I saw Mr. Taft I nowed what he ment. Mister Taft sertainly is hefty, and the big building where he has his offise dont seen none too big fer him.

"Mister Taft," sez I, "what about the presidency?"

"Presidency," sez he, "what's that?"

"Why," sez I, "the job what Mister Roosevelt has got. Are you agoin to try to git it?"

"Is Mister Roosevelt agoin to quit?" sez Mr. Taft, lookin reel interested.

Then I explained to him carefull like about how Mister Roosevelt's leese on the White House would be up eritty soon and how Mr. Roosevelt had sed he wasnt agoin to renou it.

"Oh," sez Mister Taft, "so the White House is agoin to be vakent, eh? What's the matter Mister Roosevelt dont like it? Doz the roof leak or dont the furnase heat or is some of the nabors obhsuntable?"

I told Mister Taft as how the White House was all rite and a tip top place to live in, but as how Mister Roosevelt plined fer the simpel life and as how the cars a-runnin on

Penna. avenoo disturbed his meditations.

"Do you think it would be big enuff fer me to live in?" sez Mister Taft, reel serous like but with a hopeful lite in his eye.

I looked them over carefull and then lowed he mite make it do by squeezein some. "Its old," siz I, "but they bilt bildings better in them days."

"Well, I'll tell you," sez Mister Taft, leenin over and whisperin to me behind his hand, jist like the cheer-man on the politikal committee always doz durin a township campane. "I've bin told theres a good job at the suprim court I mite git but all the funny men on the newspapers have lowed as how the suprim bench wasnt strong enuff to hold me, and to tell you the truth I've bin a leetle oneasy about it myself. I've bin a-runnin foot races and things to reduce my wate, but folks as sez they wants me to be President keep a-comin to me and a-sayin 'Mister Taft, youre a-growin every day' and I'm a-gittin rite discouraged. If I'm too big a man fer suprim pedge," sez Mister Taft, blushin like, "I may have to take that job ov President when Mister Roosevelt gits thro with it."

Then I went to see Mister Shaw in the big bilding where all the money is.

"Mister Shaw," I sez, "I've come to see you about bein President."

Mister Shaw he put his hand over his face and turned his hed away and giggled some. "Aw, go long," sez he, "and quit your foolin."

When I told him as how I had alreddy bin to see Mister Taft, Mister Shaw looked reel provoked.

"You dont mean to say," sez he, "that you think a man as fat as Taft is could run fer President and make any hedway?"

He was worried like when I told him Mister Taft had bin a-runnin foot races and things to git in practise and he wanted to no what kind ov time Mister Taft had made.

Then I that I'd do a leetle kiddin on

my own account.

"Mister Taft sez," sez I, "as how he may be a bit hefty and not as spry on his legs as some, but as how he's big enuff to hold down the job, which is more than some folks is as he could name."

Well, sir, you oder ov seen Mister Shaw when I sed that. I thot he'd sure go plum crazy. Mister Shaw, you no, is a-bilt a good deel like a skeeter.

"Meanin me, I suppose, meanin me," he shouted, and he seemed to fele so bad I was reel sorry I'd tride to plaze him. "Well," sez he, "if I was bilt like some people I no I woodent talk none."

Mister Shaw walked up and down his offise and I could see plane he was agitated. But pritty soon his face lifted up.

"I jist wish you'd show me," he sez, "a grate figger ov histry as wayed over 300 lbs." And Mister Shaw sets down agin with that sort ov satesfied smile one feller has advanced a argement he thinks the oder feller cant anser.

I wasnt anxious to renou the subject, seen as how Mister Shaw had kooled down, so I tride a new tak.

"I no a man up in Plainsville," sez I, "as thinks you're jist the rite size to be president."

"What's his name?" sez Mister Shaw, perklin up rite smart.

"Hank Wheaton," sez I, quick as a flash, tho I didnt have nobody particularly in mind when I spoke, bein jist a-tryin to sooth Mister Shaw.

And Hank would be rite tickled to no," sez I, "if you're agoin to be a candidate fer the nominashun."

"Well," sez Mister Shaw, "Sinsinatus left his plow when his country called, and it aint fer me to be too proud to heed the voice ov my feller countrymen. And if I do say it myself as shoudent, I think I'd make a good out a-bein President as some folks I no. I aint a-menshunin no names, but the feller I mean aint more'n a hundred miles away."

When Mister Shaw sed that he

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